

CLAIMS

1. A method for improving a digital image for displaying an improved image on a display, comprising:
 - 5 - determining an instantaneous property of the display;
 - determining a property of the digital image;
 - determining parameters for an image processing method at least partly on basis of said instantaneous
- 10 property of the display, and said property of the digital image; and
 - processing the digital image by means of said image processing method, while applying said parameters.
- 15 2. A method according to claim 1, wherein all measures are repeated at a repetition rate.
3. A method according to claim 1 or 2, further comprising:
 - 20 - detecting a change in said instantaneous property of the display; and
 - repeating said determining and processing measures when a change is detected.
- 25 4. A method according to any one of the preceding claims, wherein said determination of parameters is further based on an operation mode of the display.
- 30 5. A method according to any one of the preceding claims, wherein the digital image is adapted to one display out of a group of displays consisting of reflective and transflective displays.
- 35 6. A method according to any one of the preceding claims, wherein said image processing method comprises at least one sub-method chosen from a group of sub-

methods consisting of saturation increase, color componentwise histogram stretch, and unsharp masking.

7. A mobile device comprising a display unit, an
5 image memory for holding a digital image, and an image improvement unit for improving said digital image, which is displayed on the display, said image improvement unit being arranged to process said digital image by means of an image processing method; and to determine parameters
10 for said image processing method at least partly on basis of an instantaneous property of the display, and a property of the digital image.

8. A mobile device according to claim 7, said
15 display being one of a reflective and a transflective display.

9. A mobile device according to claim 7 or 8,
wherein said image improvement unit is provided in said
20 display unit.

10. A mobile device according to anyone of claims 7-
9, wherein said image improvement unit is provided
outside of the display unit, and is arranged to
25 communicate therewith.

11. A display unit comprising a display, an image memory for holding a digital image, and an image improvement unit for improving said digital image, which
30 is displayed on the display, said image improvement unit being arranged to process said digital image by means of at least one image processing method; and to determine parameters for said image processing method at least partly on basis of an instantaneous property of the
35 display, and a property of the digital image.

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12. Use of an image processing method comprising at least one sub-method chosen from a group of sub-methods consisting of saturation increase, color componentwise histogram stretch, and unsharp masking, for improving an 5 digital image for display in accordance with anyone of claims 1-5.

13. Use of an image processing method comprising at least one sub-method chosen from a group of sub-methods 10 consisting of saturation increase, color componentwise histogram stretch, and unsharp masking, in a mobile device according to anyone of claims 7-9.

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